

ABSTRACT OF THE DISCLOSURE

It is an object of the present invention to provide a method for recording data in an optical recording medium which can record data in information recording layers other than an information recording layer farthest from a light incidence plane of an optical recording medium including a plurality of information recording layers in a desired manner and reproduce data from information recording layers other than the information recording layer farthest from the light incidence plane in a desired manner.

The method for recording data in an optical recording medium according to the present invention is adapted for recording data in the optical recording medium including a substrate, a protective layer and a plurality of information recording layers between the substrate and the protective layer by projecting a laser beam onto the plurality of information recording layers via a light incidence plane constituted by either the substrate or the protective layer, thereby recording data in the plurality of information recording layers and the method for recording data in an optical recording medium comprises the steps of projecting a laser beam whose power is modulated between at least three levels including a level corresponding to a recording power, a level corresponding to an intermediate power lower than the recording power and a level corresponding to a bottom power lower than the intermediate power onto at least one information recording layer other than an information recording layer farthest from the light incidence plane and forming a recording mark in the at least one information recording layer other than the information recording layer farthest from the light incidence plane, thereby recording data therein.